RADIO FREQUENCY RADIATION EXPOSURE
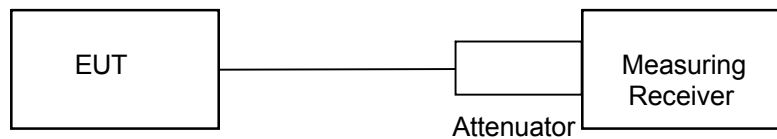
MPE calculation:

Test setup 1:

Formula:

$$S = EIRP / 4\pi R^2$$

S = Power Density (mW/cm^2)
EIRP = Radiated power (mW)
R = distance for body (cm)

Calculation:

$$S \quad = \quad 35.6mW \ / \ 4\ \pi\ 1.7 \ mW/cm^2$$

$$\textbf{S} \quad = \quad \textbf{0.98 mW/cm}^2$$

Notes:
1. The unit will be mounted at least 1.7 cm away from the body.
2. The Conducted carrier power of 15.5 dBm was the highest level measured.
3. Antenna Gain of 0dBi stated by manufacturer.
4. The EIRP based on the conducted carrier power & antenna gain is 15.5 dBm (35.6mW)

Limit

The limit of Power density for the General Population/ Uncontrolled Exposure is 1 mW/cm^2.

Result

The EUT meet the 1 mW/cm^2 limit.